

Security device for use in security papers

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Abstract

A security device for use in security paper comprises a continuous fine ribbon of a width of substantially 0.75 mm. and has printed thereon a design, lettering or pattern comprising characters of a height of substantially 0.4 mm. For the Example, a continuous sheet fed from a roll of regenerated cellulose foil had a name printed upon it in parallel columns in letters 0.4 mm. high. Alternate columns were displaced vertically by half the distance between successive lines. The sheet was then slit into ribbons 0.75 mm. wide, each of which had the name repeated along its length, but separated by spaces which contained mutilated lettering. These ribbons were then incorporated into paper by the method of Patent Specification 440,421. The sheet may alternatively be of paper, metal or plastic film or a laminate, e.g. of a central layer of aluminium foil with a layer of transparent material on each side. Identical designs, lettering or patterns may be printed on both sides. The printing may be in inks of two or more different colours, of which at least one may be fluorescent or sensitive to a chemical reagent which causes it to change colour. Phenolphthalein is referred to as an ink component that will change colour when exposed to ammonia vapour.

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Claims

WHAT WE CLAIM IS:-

1. A security device for use in security paper comprising a continuous fine security ribbon having a width of substantially 0.75 mm. and having printed thereon a design, lettering or pattern comprising printed characters of a height of substantially 0.4 mm.
2. A security device as claimed in claim 1 wherein the design, lettering or pattern is printed on the ribbon at intervals and separated by spaces which are either blank or contain mutilated portions of the design, lettering or pattern.
3. A security device as claimed in claim 1 or claim 2 wherein the ribbon comprises a laminate.
4. A security device as claimed in claim 3 wherein the ribbon comprises a central layer of reflecting material having a layer of transparent material on either side.
5. A security device as claimed in claim 4, 1,095,286 1,095,286 wherein the central layer is of metal foil.
6. A security device as claimed in claim 4 or claim 5 wherein the design, lettering or pattern is printed on both the transparent layers.
7. A security paper having one or more security devices as claimed in any one of the preceding claims incorporated therein.
- 8. A security device as claimed in any one of claims 1 to 6 wherein the design, lettering or pattern is printed in inks of two or more colours.
9. A security device as claimed in claim 8 wherein at least one of the inks is fluorescent or sensitive to a chemical reagent which causes the ink to change colour.
10. A security paper having one or more security devices as claimed in claim 8 or claim 9 incorporated therein.
11. A method of making a security paper which method comprises printing a design lettering or pattern comprising characters of a height of substantially 0.4 mm on a continuous sheet or web comprising paper, metal foil or plastics film material, sub-dividing the sheet or web into continuous fine security ribbons having a width of substantially 0.75 mm.
and each having a characteristic design, lettering or pattern printed thereon, and thereafter incorporating the ribbons into paper.
12. A method as claimed in claim 11 wherein the minute characters are printed in columns on the sheet or web, the columns being so arranged that when the sheet is slit into fine ribbons each ribbon contains the required characteristic design, lettering or pattern throughout the length of the ribbon, but separated by spaces which are either blank or contain mutilated portions of the design, lettering or pattern.
13. A method as claimed in claim 11 or claim 12 wherein the design, lettering or pattern is printed on both sides of the sheet or web.
14. A method as claimed in claim 13 wherein the ribbon has a substantially identical design, lettering or pattern on each side.
15. A method as claimed in any one of claims 11 to 14, wherein the printing is effected with different coloured inks so that the characteristic design, lettering or pattern comprises two or more colours.
16. A method as claimed in claim 15 wherein at least one of the inks is fluorescent or sensitive to a chemical reagent which causes the ink to change colour.
17. A security paper when made by a method as claimed in any one of claims 11 to 14.

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18. A security paper when made by a method as claimed in claim 15 or claim 16.

19. A security device for use in security paper substantially as hereinbefore described with reference to the specific Example.

20. A security paper substantially as hereinbefore described with reference to the specific Example.

21. A method of making security paper substantially as hereinbefore described with reference to the specific Example.

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